What is claimed is:

A manufacturing method of a complex lens for a tandem scanning optical system that consists of a plurality of stacked lens portions and said lens portions converging/a plurality of light beams, which are modulated independently and deflected by a deflector, onto a surface to be scanned, respectively, for forming a plurality of scanning lines at the same time, said method comprising:

preparing molding dies for forming a cavity to form said complex lens as a single-piece element; and

injecting lens material into said cavity,

wherein said molding dies include a pair of single-piece mirror surface cores that form a plurality of lens surfaces of said complex lens at an incident side and a plurality of lens surfaces at an exit side, respectively.

- 2. The manufacturing method according to claim 1, wherein each of mirror surface portions of said mirror surface cores has a concave sectional shape in a direction perpendicular to the direction in which a plurality of light beams scan.
- The manufacturing method according to claim 1, wherein 3. said mirror surface portions of at least one of said mirror surface cores at/the incident and exit sides are formed as

rotationally-symmetrical concave surfaces with respect to respective optical axes.

4. A complex lens for a tandem scanning optical system that converges a plurality of light beams, which are modulated independently and deflected by a deflector, onto a surface to be scanned, for forming a plurality of scanning lines at the same time, said complex lens comprising:

a plurality of stacked lens portions that are molded as a single-piece element,

wherein a plurality of lens surfaces of said lens portions at an incident side are formed by a single-piece mirror surface core and a plurality of lens surfaces of said lens portions at an exit side are formed by another single-piece mirror surface core during molding process.

- 5. The complex lens according to claim 4, wherein each of said lens surfaces of said lens portions has a convex sectional shape in a direction perpendicular to the direction in which a plurality of light beams scan.
- 6. The complex lens according to claim 4, wherein said lens surfaces of at least one of the incident and exit sides are formed as rotationally-symmetrical convex surfaces with respect to respective optical axes.